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From: Brandon Perkins/R10/USEPA/US

To: Marcia Bailey/R10/USEPA/US@EPA

Delivered Date: 02/01/2011 01:22 PM PST

Subject: Fw: Review of ATSDR chemical specific consultation: sulfolane

Marcia

Just a FYI

Brandon Perkins
Office of Environmental Cleanup
U.S. Environmental Protection Agency, Region 10
206-553-6396

----- Forwarded by Brandon Perkins/R10/USEPA/US on 02/01/2011 01:20 PM -----

From: "Durant, James T. (ATSDR/DTEM/PRMSB)" <hzd3@cdc.gov>
To: Brandon Perkins/R10/USEPA/US@EPA
Date: 02/01/2011 01:09 PM
Subject: RE: Review of ATSDR chemical specific consultation: sulfolane

Sounds good. We have a pretty good cross section of opinions (including experts on benchmark dose modeling/risk assessment at EPA and also at NIOSH). Chances are pretty good that the issues that she is going to raise are brought to my attention already, but I definitely want you'all's input.

Jim Durant MSPH CIH
Emergency Response Coordinator
Agency for Toxic Substances and Disease Registry Division of Toxicology and Emergency Medicine 4770 Buford Hwy., MS-F62 Atlanta, GA
30341 - 3717
Office: (770) 488-0668
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--.... ...--

-----Original Message-----

From: Perkins.Brandon@epamail.epa.gov [mailto:Perkins.Brandon@epamail.epa.gov]
Sent: Tuesday, February 01, 2011 3:54 PM
To: Durant, James T. (ATSDR/DTEM/PRMSB)
Subject: RE: Review of ATSDR chemical specific consultation: sulfolane

As of 1/26 the toxicologist has not had the time to conduct a review. She said she would attempt an abbreviated review.

Brandon Perkins
Office of Environmental Cleanup
U.S. Environmental Protection Agency, Region 10

206-553-6396

From: "Durant, James T. (ATSDR/DTEM/PRMSB)" <hzd3@cdc.gov>
To: Brandon Perkins/R10/USEPA/US@EPA
Date: 02/01/2011 12:42 PM
Subject: RE: Review of ATSDR chemical specific consultation:
sulfolane

Hi Brandon -

I wanted to check in and see what the status is on R10's comments on Sulfolane? Not a big deal, but we have gotten comments in from the other 4 reviewers we have asked, and I needed to move forward on this as soon as possible.

V/R

Jim Durant MSPH CIH
Emergency Response Coordinator
Agency for Toxic Substances and Disease Registry Division of Toxicology
and Emergency Medicine 4770 Buford Hwy., MS-F62 Atlanta, GA
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--.... --

-----Original Message-----

From: Perkins.Brandon@epamail.epa.gov [mailto:Perkins.Brandon@epamail.epa.gov]
Sent: Tuesday, December 28, 2010 5:34 PM
To: Durant, James T. (ATSDR/DTEM/PRMSB)
Subject: Re: Review of ATSDR chemical specific consultation: sulfolane

James,

What is the deadline for submitting comments?

Brandon Perkins
Office of Environmental Cleanup
U.S. Environmental Protection Agency, Region 10
206-553-6396

From: "Durant, James T. (ATSDR/DTEM/PRMSB)" <hzd3@cdc.gov>
To: Brandon Perkins/R10/USEPA/US@EPA
Cc: "Holler, James S. (Jim) (ATSDR/DTEM/PRMSB)" <jsh2@CDC.GOV>, "Chou, Selene (ATSDR/DTEM/PRMSB)" <cjc3@CDC.GOV>, "Nickle, Richard (ATSDR/DTEM/PRMSB)" <ran2@CDC.GOV>, "Kauffman, Richard (ATSDR/DRO)" <rxk3@cdc.gov>
Date: 12/22/2010 11:29 AM
Subject: Review of ATSDR chemical specific consultation:
sulfolane

ATSDR would like to thank you for agreeing to review of the chemical specific health consultation on sulfolane. On background, in 2009, ATSDR was asked by the Alaska Department of Health and Social Services to derive a provisional health guidance value (public health action level) for the chemical, sulfolane. After release of our initial health consultation in February 2010, a consulting firm for the potentially responsible party, ToxStrategies, presented ATSDR with a previously unpublished study of sulfolane in rats that was conducted at Huntington Life Sciences in the United Kingdom. ToxStrategies also expressed concerns regarding ATSDR's methodology in development of the provisional health guidance values. Specifically, ToxStrategies had expressed concerns about our lack of using appropriate benchmark modeling techniques for the sulfolane data. Because of the technical complexity of the issues ToxStrategies is raising and to ensure that ATSDR's recommendations are scientifically supported, we are asking you to review of the enclosed draft health consultation.

<<ATSDR Sulfolane_review draft.docx>>

The attached draft health consultation re-examines the available data from both a no/lowest-observed adverse effect level standpoint as well as utilizing the benchmark dose modeling approach to derive a provisional health guidance value for sulfolane. ATSDR would like your review and comment on the following areas:

Question 1. Did ATSDR select the appropriate point of departure in its assessment of sulfolane?

Question 2. Are the methodologies used to establish the provisional health guidance value for sulfolane by ATSDR scientifically sound and sufficiently protective of public health?

Question 3. Is the slope-restricted log logistic BMDS of the Zhu et al. 1987 guinea pig fatty liver degeneration overly anti-conservative?

Question 4: Is the log transformed quantal-linear model Zhu et al. 1987 guinea pig liver data scientifically sound? Is the resulting BMDL preferable to the BMDL from the slope-restricted log logistic model of the same data?

Question 5. Are the health consultation's results presented and interpreted appropriately and completely?

Question 6. Are the health consultation's conclusions and recommendations appropriate and complete?

Question 7. Are there any notable omissions or ambiguities in scientific logic anywhere in the health consultation that would be germane to the evaluation of potential adverse health effects?

Question 8. Are there any other comments on the health consultation?

While ATSDR does not have plans to publish reviewer comments in the document, the identity of the reviewers will be disclosed. Furthermore, your comments may be subject to release to interested parties under applicable laws (e.g. Freedom of Information Act). Your comments will be attributed to you.

In addition to the draft health consultation, please find:

- English translation of Zhu Z, Sun M, Li Z, et al. 1987. An investigation of maximum allowable concentration of sulfolane in surface water. J West China Univ Med Sci 18(4):376-80.

<<sulfolane MAC translated.docx>>

- ToxStrategies. 2010. Assessment of Toxicological Data for Sulfolane – Update II. Austin, TX: ToxStrategies, Inc. August 2010.

<<sulfolane white paper_update_final_Aug 18 2010.pdf>>

- ToxStrategies. 2010. Development of an Oral BMD for Sulfolane based on data from a 90 Day Drinking Water Study Conducted by Huntington Life Science (2001). Austin, TX: ToxStrategies, Inc. August 2010.

<<HLS Summary-final_Aug 18 2010.pdf>>

We will transmit an electronic copy of the Huntington Life Sciences study on request as it is exhaustive in length. If you have any questions please do not hesitate to contact me at 770.488.3358

Sincerely,

/s/

James Holler

Acting Division Director

Division of Toxicology and Environmental Medicine

4770 Buford Highway

US Agency for Toxic Substances and Disease Registry

Atlanta, GA 30341[attachment "ATSDR Sulfolane_review draft.docx" deleted by Brandon Perkins/R10/USEPA/US] [attachment "sulfolane MAC translated.docx" deleted by Brandon Perkins/R10/USEPA/US] [attachment "sulfolane white paper_update_final_Aug 18 2010.pdf" deleted by Brandon

Perkins/R10/USEPA/US] [attachment "HLS Summary-final_Aug 18 2010.pdf"
deleted by Brandon Perkins/R10/USEPA/US]